In the Claims:

1. A fluid analyzer comprising:

a pre-concentrator having a plurality of parallel channels; and

a concentrator connected to the pre-concentrator; and

a first separator connected to the concentrator.

2. The analyzer of claim 1, further comprising a first plurality of heater elements situated in the concentrator.

3. The analyzer of claim 2, further comprising a second separator connected to the first separator.

4. The analyzer of claim 3, further comprising a second plurality of heater elements in the channels of the pre-concentrator.

5. The analyzer of claim 4, further comprising a controller connected to the first and second pluralities of heater elements for providing a concentrated heat pulse.

6. The analyzer of claim 5, further comprising a first pump connected to a first pump connected to the pre-concentrator.

7. The analyzer of claim 6, further comprising a second pump connected to the second separator.

8. The analyzer of claim 7, further comprising at least one detector situated between an input of the pre-concentrator and the second pump.

9. The analyzer of claim 8, wherein the concentrated heat pulse moves through the concentrator.

10. A fluid analyzer comprising:

a concentrator;

a first separator connected to the concentrator;

a second separator connected to the first separator;

a bypass tube having a first end connected to the first separator; and

a pump connected to an outlet of the second separator and to a second end of the bypass tube.

11. The analyzer of claim 10, wherein the fluid analyzer has a configuration of a plurality of fluid chromatographs.

12. The analyzer of claim 11, further comprising a microvalve situated in the bypass tube.

13. The analyzer of claim 12, further comprising a plurality of detectors situated in positions along a fluid flow path between an input of the concentrator and an input of the pump.

14. The analyzer of claim 13, further comprising at least one orifice in the fluid path.

15. The analyzer of claim 14, further comprising a control mechanism connected to the concentrator, the first separator, the pump, the plurality of detectors and the microvalve.

16. A fluid analyzer comprising:

a concentrator;

a first separator connected to the concentrator;

a second separator connected to the first separator;

a pump connected to an output of the second separator; and

a plurality of detectors situated along a path for fluid flow in analyzer; and

wherein the fluid analyzer has a configuration of a multiple fluid chromatograph.

17. The analyzer of claim 16, wherein the concentrator has a plurality of heater elements.

18. A fluid analyzer comprising:

a concentrator having a plurality phased heater elements;

a first separator connected to the concentrator (623);

a second separator connected to the first separator;

a first pump connected at an input of the concentrator;

a second pump connected to an outlet of the second separator; and

a plurality of detectors situated along a fluid flow path of the analyzer; and

wherein the analyzer has a configuration of at least two chromatographs.

19. The analyzer of claim 18, further comprising a controller connected to the concentrator, first separator, second separator, plurality of detectors, first pump and second pump.

20. The analyzer of claim 19, where at least two detectors of the plurality of detectors are thermal conductivity detectors.